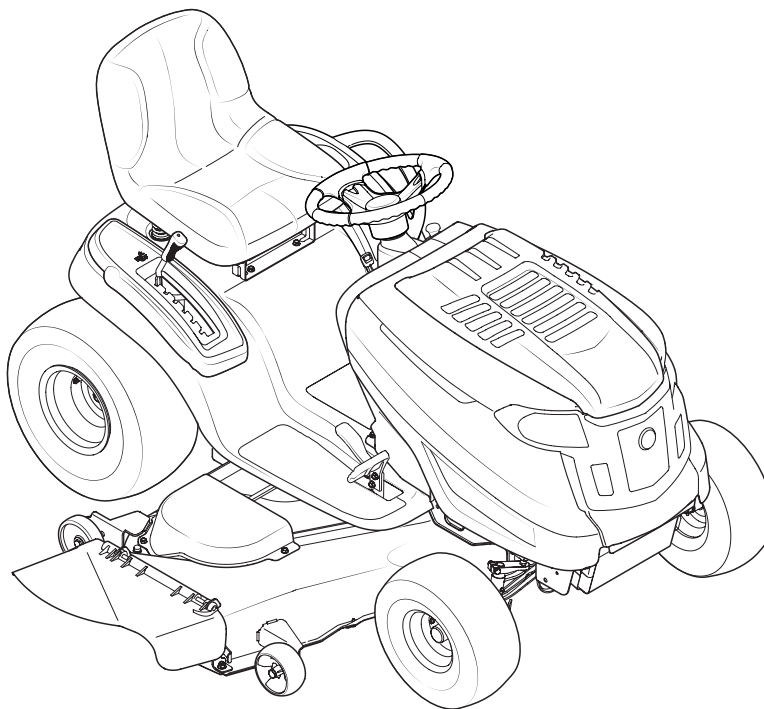




# ILLUSTRATED PARTS MANUAL



## 50" Hydrostatic Lawn Tractor, 900 Series

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TROY-BILT LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

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## To The Owner

Thank you for purchasing an MTD Lawn Tractor. It was carefully engineered to provide excellent performance when properly operated and maintained.

All information in this manual is relative to the most recent product information available at the time of printing. Please be aware that this Illustrated Part's Manual may cover a range of product specifications for various models.

Components listed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

Throughout this manual, all references to *right* (RH) and *left* (LH) are observed from the operating position.

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### Record Product Information

To ease in ordering replacement parts, please locate the model plate on the equipment and record the information in the provided area to the right. You can locate the model plate by looking beneath the seat.

#### MODEL NUMBER

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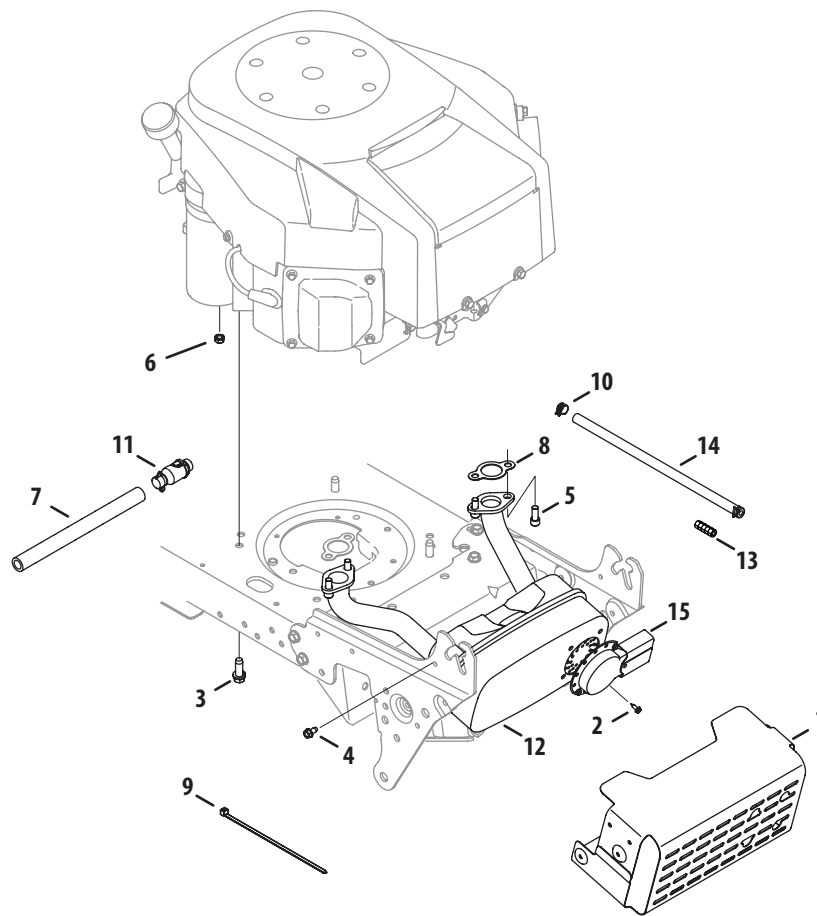
#### SERIAL NUMBER

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### Painted Parts

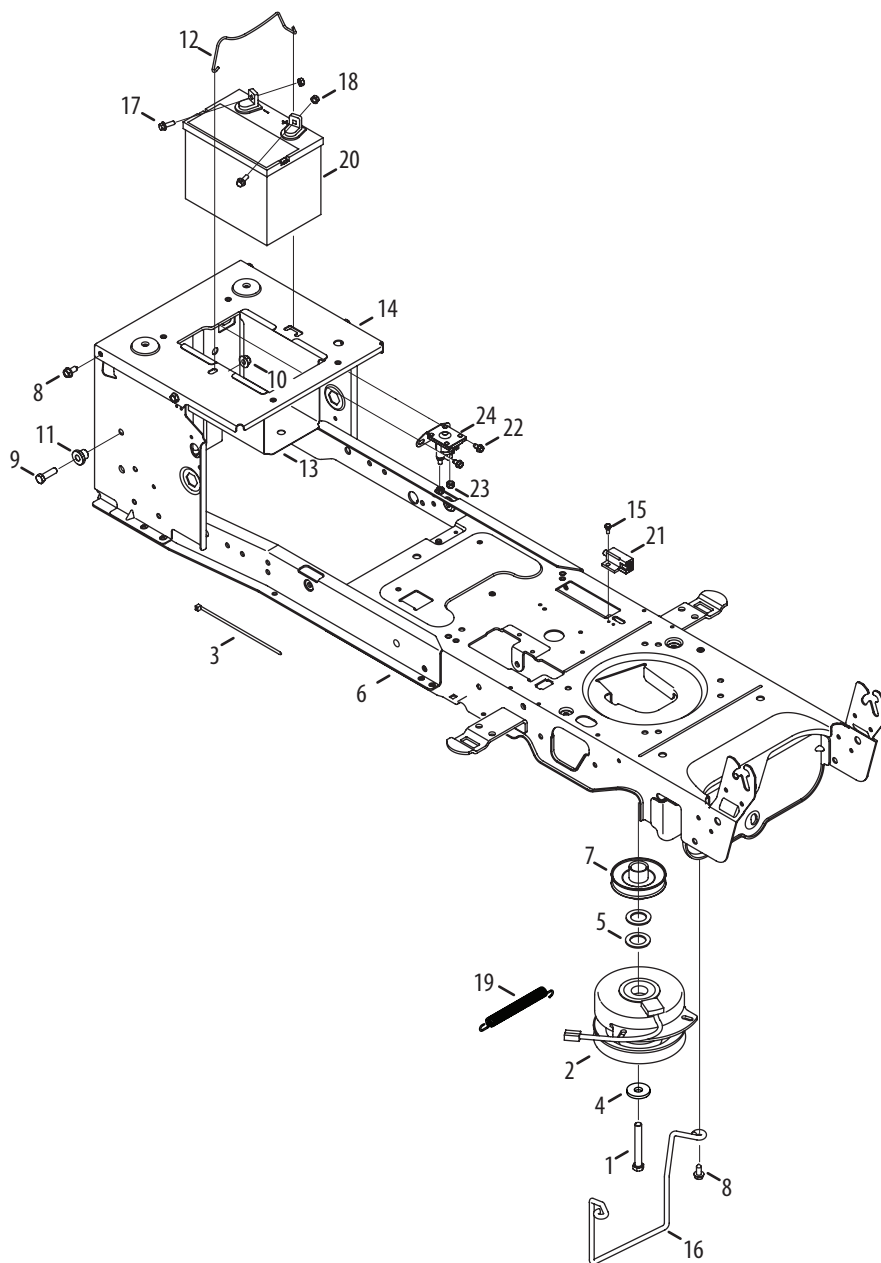
When ordering painted service parts, a four digit color suffix must be added to the part number (e.g. 783-XXXX-0637). Please refer to the table below for current color codes:

0637	Black	0674	Yellow (Yard-Man)
0709	Dark Green (Bolens, Yard-Man)	0650	Metallic Red (White Outdoor)
0662	Oyster Gray (MTD Gold)	0629	Silver Flake (MTD Platinum)
0638	Red (Yard Machines, Huskee, Troy-Bilt, MTD)	04038	Day Orange (Daedong)
0691	Black Jack (MTD Gold, MasterCut)	04033	Flint Mica (Troy-Bilt XP)



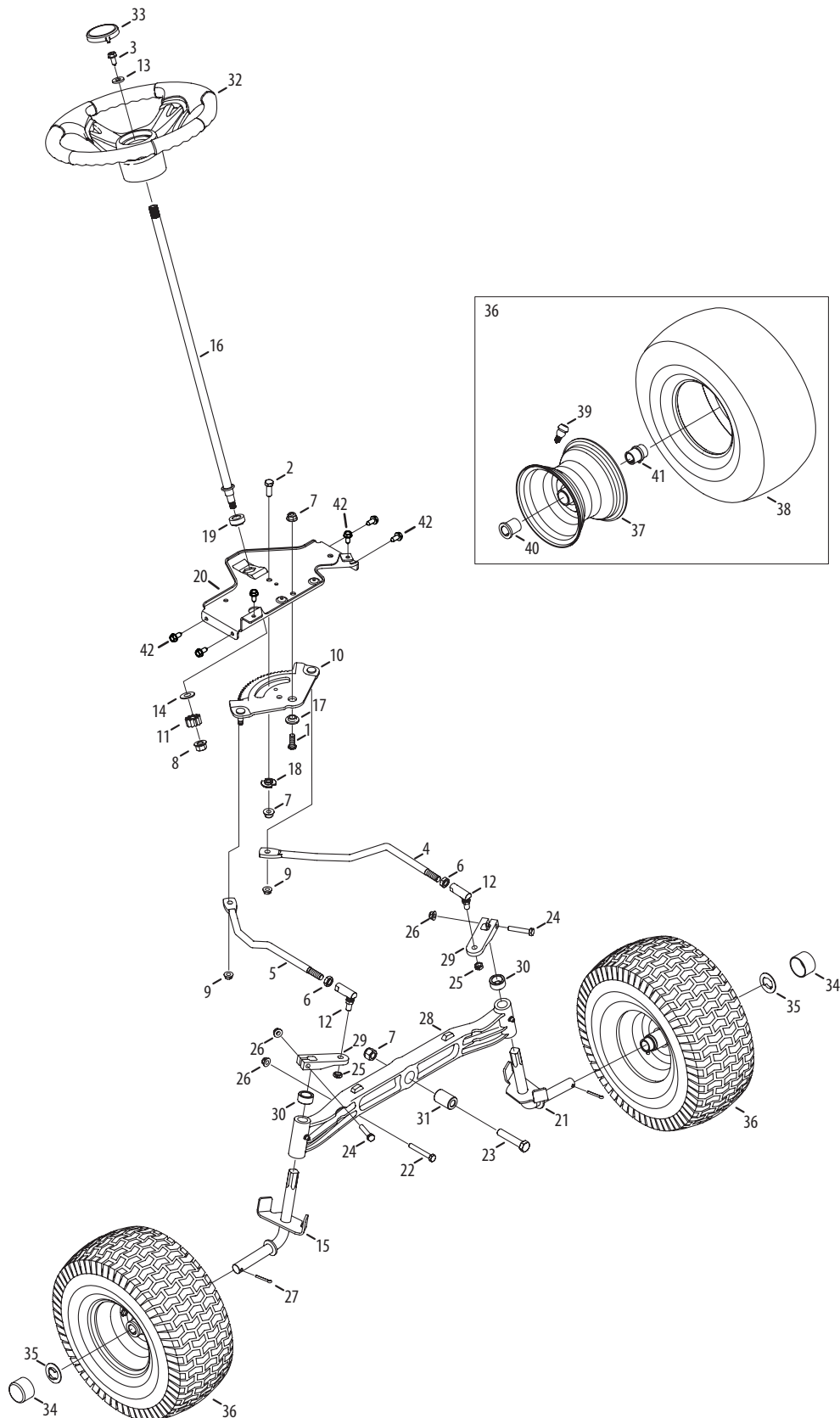
Ref.	Part Number	Description
1	683-04549	Shield Ass'y, Muffler
2	710-0227	Screw, Ab, #8-18, 0.500,
3	710-04683A	Screw, Self-tapping, 3/8-16, 1.000,
4	710-0599	Screw, Self-tapping, 1/4-20, 0.500,
5	710-1314A	Screw, Socket Head, 5/16-18, .750
6	712-0271	Nut, Sems, 1/4-20
7	751-3141-14	Hose, Extension, Oil Drain
8	721-0460	Gasket, Exhaust, Briggs
9	725-0157	Cable, Tie, 3/16 x .05 x 7.4
10	726-0205	Clamp, Hose, .490 Dia.
11	951-10517A	Drain, Oil
12	751-10542A	Muffler, Briggs Twin
13	751-12089-28	Hose, Vent
14	751-10349	Hose, Fuel, Low Permeation, 1/4
15	751-11053A	Deflector, Muffler, Long

## PTO and Battery



Ref.	Part Number	Description
1	710-04379A	Hex Head Screw, 7/16-20:3.50
2	917-05122	Electric PTO Clutch
	725-06019	Clutch Harness Wire 11.625"
3	725-0157	Cable Tie, 3/16 x .05 x 7.4
4	736-0322	Washer, Flat, .450 x 1.25 x .164
5	736-0277	Flat Washer, 1.031 x 1.620 x .095
6	683-04469C	Frame
7	756-0978B	Electric PTO Engine Pulley
8	710-04484	Taptite Screw, 5/16-18:.750
9	710-3005	Hex Head Screw, 3/8-16:1.25
10	712-04065	Flangelock Nut, 3/8-16
11	738-04058	Shoulder Spacer, .38 x 1.0 x .70
12	747-04121A	Battery Holder Rod
13	783-0349	Battery Tray
14	783-06089	Seat Frame Bracket
15	738-04237A	Shoulder Screw, #10-32:.500
16	747-05195	Belt Keeper Rod
17	710-04666	Hex Head Flange, 1/4-20:.75
18	712-0271	Sems Nut, 1/4-20
19	732-0814	Spr, Extn, .56 Dia X 5.52
20	925-1707D	Battery
21	725-04363	Interlock Switch
22	710-0653	Taptite Screw, 1/4-20:0.375
23	712-04064	Flangelock Nut, 1/4-20
24	725-04439	Solenoid, 12 V
—	925-04104	Wire harness, Main

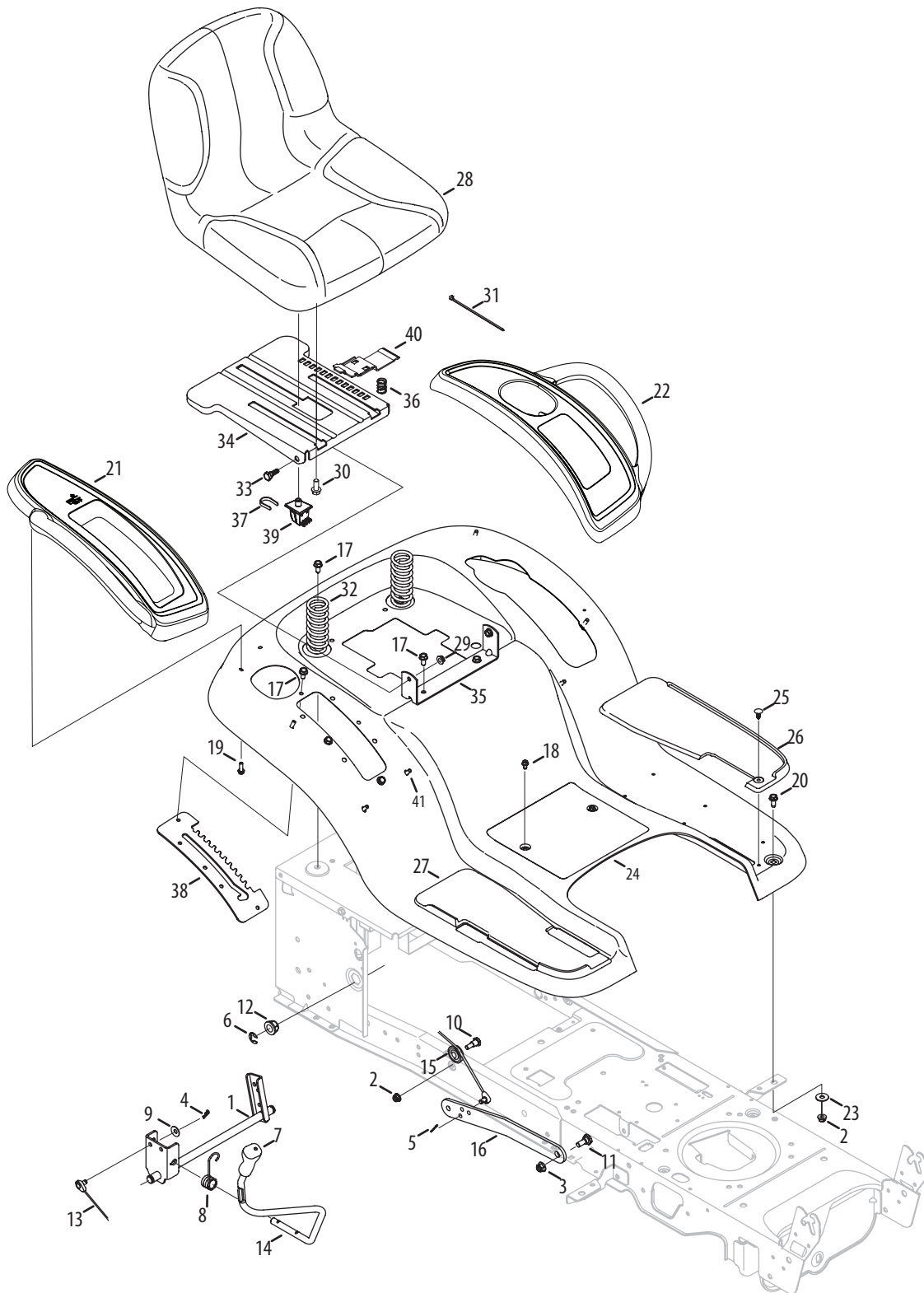
## Steering and Axle



Ref.	Part Number	Description
1	710-04095	Hex Head Screw, 3/8-16:1.00
2	710-0514	Hex Head Screw, 3/8-16:1.00
3	710-0643	Hex Head Screw, 5/16-18:1.00
4	711-04998	LH Drag Link
5	711-04999	RH Drag Link
6	912-0240	Jam Nut, 7/16-20
7	712-04065	Flangelock Nut, 3/8-16
8	712-0459	Flangelock Nut, 7/16-20
9	712-3004A	Flangelock Nut, 5/16-18
10	717-1550F	Steering Gear
11	717-1554	Steering Pinion Gear
12	923-0448A	Ball Joint, 7/16-20
13	936-3004	Flat Washer, .406 x .875 x .105
14	736-3084	Flat Washer, .51 x 1.12 x .06:HT
15	638-04036P	RH Axle Assembly
16	738-04263	Steering Shaft, .625 OD x 24.25 LG
17	738-04363	Shoulder Spacer, .385X 1.25 x .3025
18	738-04364B	Spacer, .38 x 1.375
19	741-04237B	Hex Flange Bearing 5/8 PM
20	783-06043	Steering Support Bracket
21	638-04037P	LH Axle Assembly

Ref.	Part Number	Description
22	710-0395	Hex Head Screw, 5/16-18:2.25
23	710-0859	Hex Head Screw, 3/8-16:2.50
24	710-3180	Hex Head Screw, 5/16-18:1.75
25	912-0214	Hexlock Nut, 3/8-24
26	712-04063	Flangelock Nut, 5/16-18
27	714-0162	Cotter Pin, 5/32:1.25
28	719-04413A	Pivot Bar Axle
29	748-04278	Steering Block
30	748-04068	Spacer, .71 ID x .125 OD x .56LG
31	750-05280	Spacer, .385 x 1.00 x 1.5075
32	631-04008A	Steering Wheel, Soft Grip
33	731-04681	Cap, Troy-Bilt
34	731-08049	Bumper Cap
35	736-04228A	Flat Washer, .781ID x 1.590OD
36	634-04466-0911	Wheel Assembly
37	934-04082-0662	Rim Assembly
38	734-1727	Tire
39	934-0255	Tubeless Air Valve
40	741-0516B	Flange Bearing, .760 x 1.00 x 1.20LG
41	741-0990B	Flange Bearing, .760ID
42	710-04484	Screw, Self-tapping, 5/16-18, .750,

## Seat and Fender

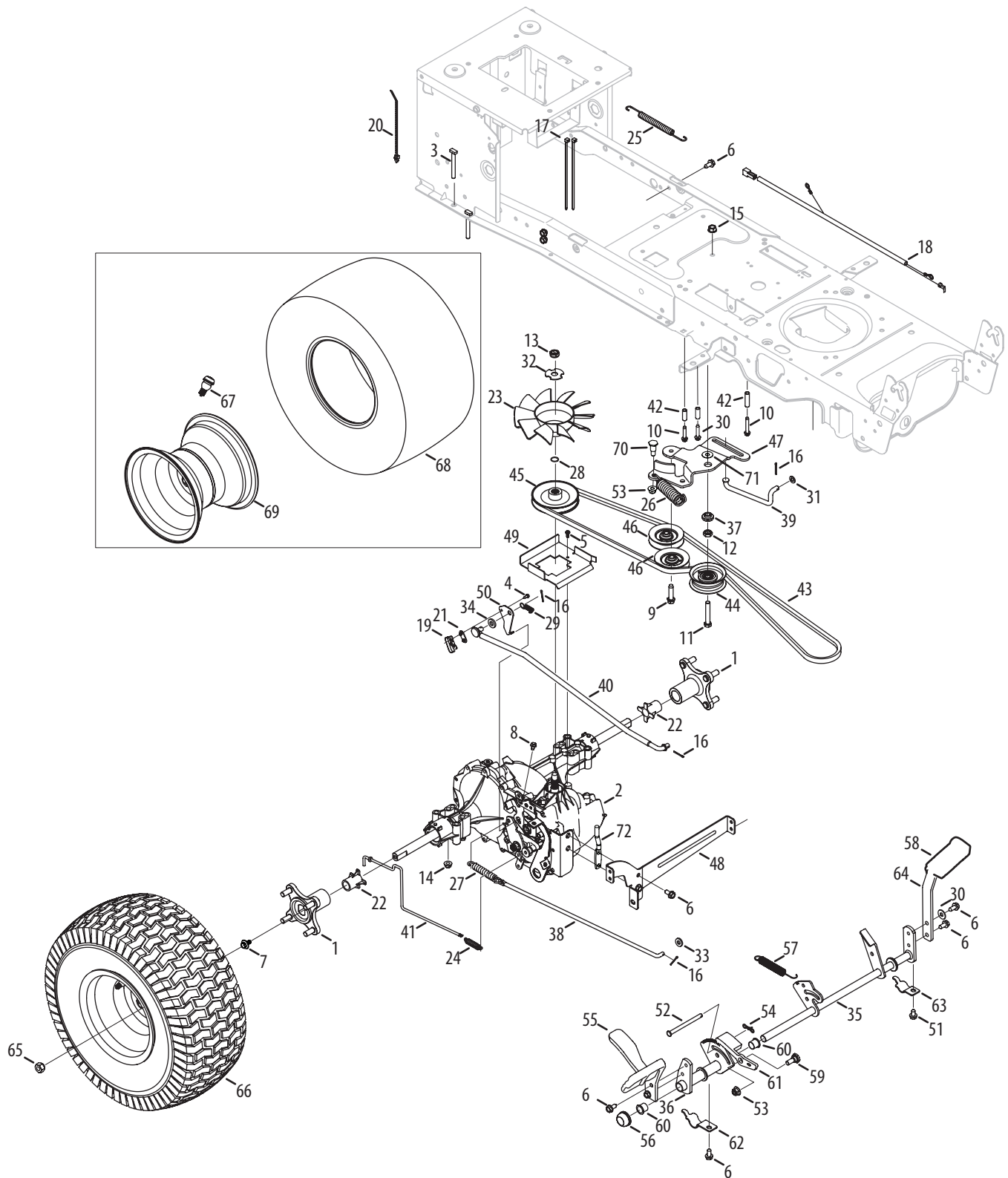




Ref.	Part Number	Description
1	683-04223	Lift Shaft Assembly
2	712-04063	Flangelock Nut, 5/16-18
3	712-04065	Flangelock Nut, 3/8-16
4	914-0104	Cotter Pin, .072 DIA. x 1.13 LG
5	714-04040	Bow-Tie Cotter Pin
6	716-0106A	E-Ring, .625 DIA. SHAFT
7	720-0311	Handle Grip
8	732-0874	Torsion Spring
9	736-0105	Spring Washer, .401 x .870 x .063
10	738-0138A	Shoulder Screw, .437 x .470:5/16-18
11	938-0380	Shoulder Bolt, .500 x .270:3/8-16
12	941-0225	Hex Flange Bearing
13	946-04436	Lift Cable, 16.64 LG
14	747-04962A	Lift Handle
15	756-04331	Pulley Roller Cable
16	783-05546A	Lift Arm
17	710-04484	Taptite Screw, Lock Washer, 5/16-18
18	710-0599	Taptite Screw, Lock Washer, 1/4-20
19	710-0895	Hi-Lo Screw, Lock Washer, 1/4-15
20	710-1260A	Taptite Screw, 5/16-18:.750
21	731-06754	Fender Cover RH

Ref.	Part Number	Description
22	731-05837	LH Fender Cover
23	736-3078	Flat Washer, .344 x 1.00 x .063 HDN
24	783-06235	Fender
25	726-3046	Ratchet Clip
26	735-04138	LH Foot Pad
27	735-04158	RH Foot Pad
28	757-04086	Seat
29	712-3004A	Flangelock Nut, 5/16-18
30	710-04482	Hex Head Flange, 3/8-16:.875
31	725-0157	Cable Tie, 3/16 x .05 x 7.4
32	732-04849	Compression Spring, 1.50 x 3.90 x .200
33	938-0296	Shoulder Screw, .437 x .268:5/16-18
34	783-06049	Seat Mounting Bracket
35	783-06088	Seat Pivot Bracket
36	732-04563	Comp. Spring, .68 x 1.065 x .055
37	783-06448	Switch Retainer Clip
38	783-06548	Lift Bracket
39	925-05013	Seat Switch
40	783-06050	Seat Adjustment Lever
41	710-04187	Screw, 1/4-15 x 0.50

## Drive and Rear Wheels

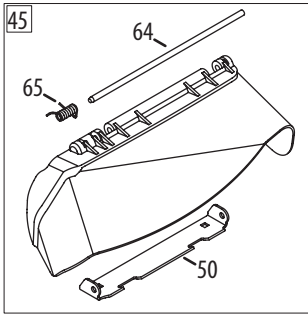


## Drive and Rear Wheels

Ref.	Part Number	Description
1	918-04228	Wheel Hub Assembly
2	918-04270B	Hydro Transmission
3	710-0176	Hex Head Screw, 5/16-18:2.75
4	710-0227	Screw, Indented Washer, #8-18:0.500
5	710-0351	Screw, #10-16:0.500
6	710-04484	Taptite Screw, 5/16-18:.750
7	710-05339	Screw, 5/16-24 x .750
8	710-0653	Taptite Screw, 1/4-20:0.375
9	710-1007	Taptite Sems Screw, :3/8-16:1.500
10	710-1325	Taptite Screw, 1/4-20:1.625
11	710-3011	Hex Head Screw, 3/8-16:2.25
12	912-0240	Jam Nut, 7/16-20
13	912-0346	Jamlock Nut, 1/2-20
14	712-04063	Flangelock Nut, 5/16-18
15	912-0431	Flangelock Nut, 3/8-16
16	914-0111	Cotter Pin, 3/32:1.0
17	725-0157	Cable Tie. 3/16 x .05 x 7.4
18	725-04791A	Jumper Harness
19	725-1644	Short Spring Switch
20	926-0154	Push Mount Cable Tie 7.5 LG
21	926-0320	Insulator Nut Plate
22	731-05300A	Sleeve, .765 ID x 1.500 LG
23	731-06098	Hydro Fan
24	932-0209	Extension Spring, .48 OD x 2.03
25	732-04606	Extension Spring, .500 DIA x 12.6 LG
26	732-04792	Extension Spring, 1.00 DIA x 4.75
27	732-0716D	Extension Spring, .59 OD x 4.00 LG
28	732-0729	Wire Ring
29	732-3118	Extension Spring, .375 OD x 1.44 LG
30	710-1026	Screw, Self Tapping, 1/4-20 x 1.75
31	936-0264	Flat Washer, .330 x .630 x .0635
32	736-04263	Lock Washer
33	936-3008	Flat Washer, .344 x .750 x .120
34	736-3010	Flat Washer, .407 x .812 x .135
35	647-04152D	Brake Control Assembly
36	683-04488	Hydro Pedal Bracket Assembly

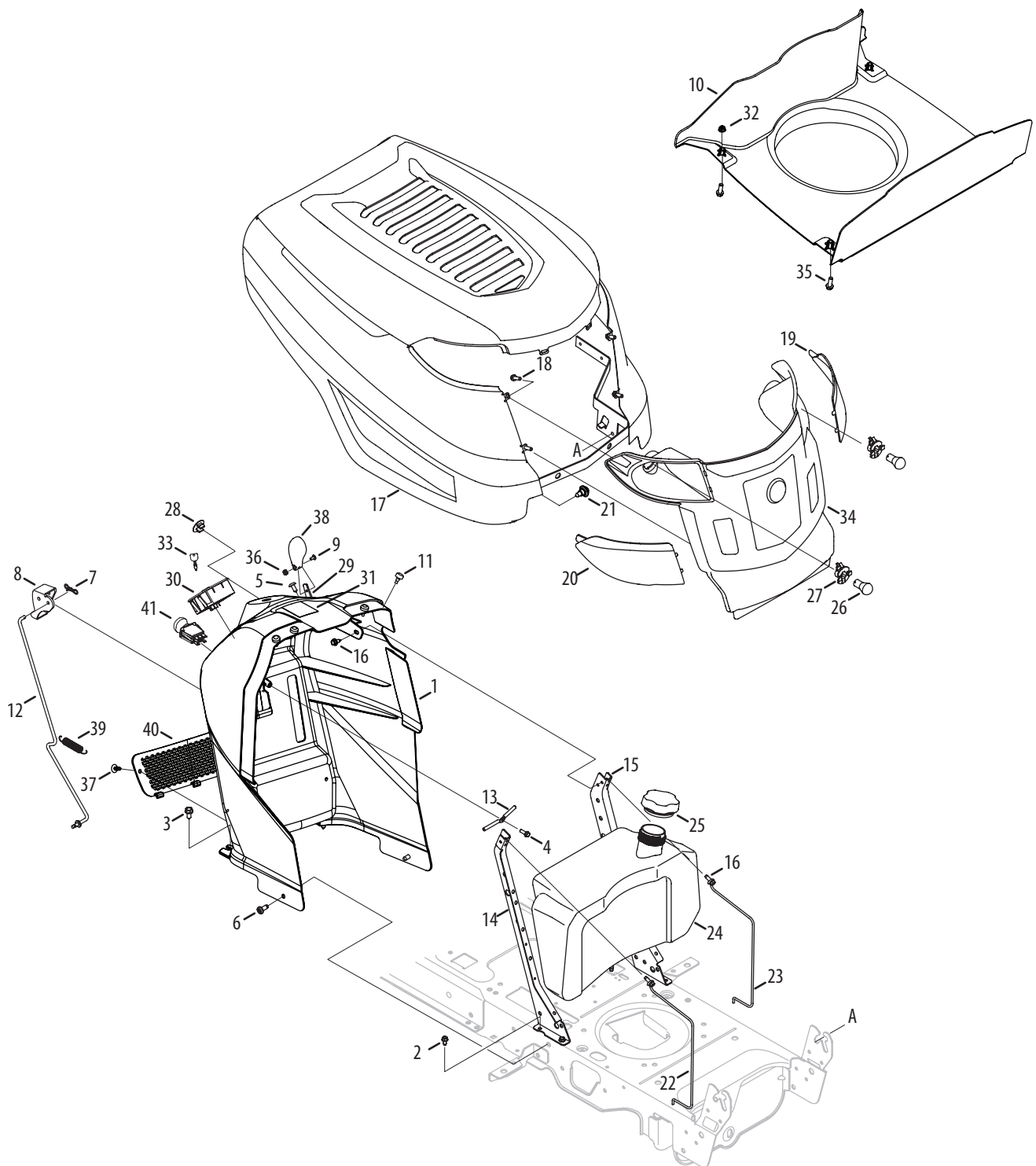
Ref.	Part Number	Description
37	738-04420	Shoulder Spacer, 1.375 x .380 x .183
38	747-04139	Brake Rod
39	747-04957A	Footpedal Bypass Transmission Rod
40	747-04979	Hydro Control Rod
41	747-04991	Hydro Bypass Rod
42	750-04456	Spacer, 260 x .372 x 1.420 LG
43	954-04207	V-Belt, 4L x 78.9 POLY
44	756-04224	Flat Idler Pulley, 2.75 OD
45	756-04308	Input Pulley, 4.13 DIA
46	756-04325	V Idler Pulley, x 3.06
47	783-06027B	Center Idler Bracket
48	783-06133	Hydro Mounting Bracket
49	783-06260	Belt Disengage Support Bracket
50	783-1019B	Switch Actuator Bracket
51	710-0604A	Taptite Screw, 5/16-18:0.625
52	711-05068A	Clevis Pin, 5/16 x 3.985
53	712-04065	Flangelock Nut, 3/8-16
54	714-04040	Bow-Tie Cotter Pin
55	719-0584B	Control Pedal
56	726-0214	Push Cap
57	732-04587	Extension Spring, .63 DIA x 4.95 LG
58	735-04136	Brake Pedal Pad
59	938-0380	Shoulder Bolt, .500 x .270:3/8-16
60	741-0495	Flange Bearing, .630 ID x .695 OD x .60
61	748-04203	Cruise Latch
62	783-05914	Pedal Support Bracket
63	783-05940	Pedal Support Bracket, 5/8
64	783-06103A	Brake Pedal Bracket
65	712-3050	Lug Nut
66	634-04210-0911	Wheel Assembly
67	934-0255	Tubeless Air Valve
68	734-04174	Tire
69	634-04238-0662	Rim Assembly
70	738-0430	Scr, Shldr, .50 x .685 3/8-16
71	936-0344	Washer, Flat, .385 x 1.0 x .030
72	747-05444A	Belt Keeper Rod

## 50" Deck



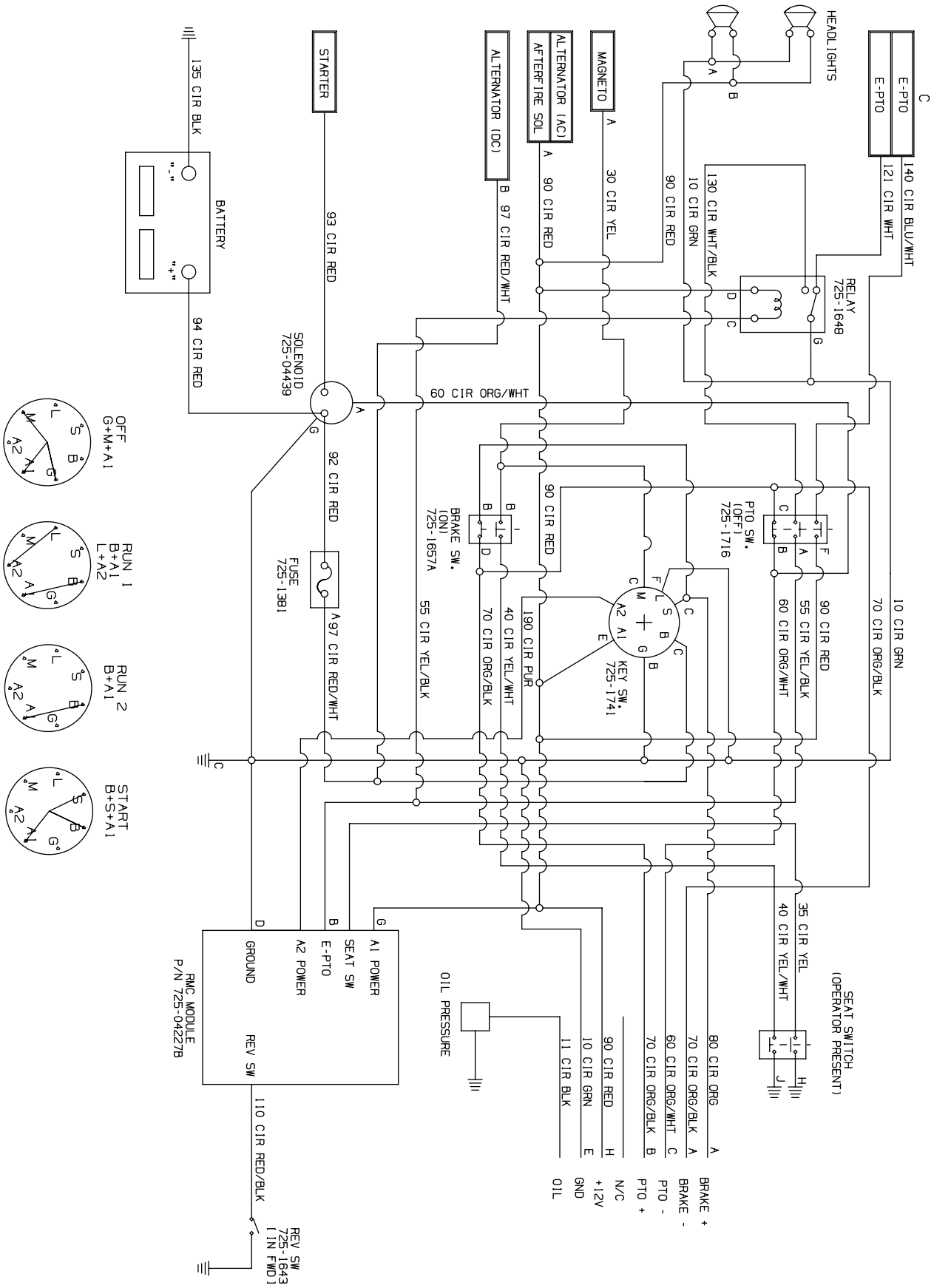
Ref.	Part Number	Description	Ref.	Part Number	Description
1	96606	Hook Retainer Bracket	34	936-0119	Lock Washer, 5/16
2	918-04125B	Pulley Spindle Assembly, 5.39	35	936-0179	Flat Washer, .531 x 1.25 x .100
3	683-0254B	Deck Hanger Bracket Assembly	36	738-04278	Shoulder Screw, 1/4-20 x 0.50
4	983-04645A	Deck Assembly	37	936-0300	Flat Washer, .406 x .875 x .059
5	703-3279	Chute Deflector Stop	38	736-0317	Bell Washer, .63 x 1.25 x .18
6	710-0347	Hex Screw, 3/8-16:1.75	39	783-07236	Pulley Cap
7	710-04095	Hex Screw, 3/8-16:1.00	40	938-0373	Shoulder Bolt, .496 x 1.525:3/8-16
8	710-04484	Taptite Screw, 5/16-18:.750	41	738-04162C	Shoulder Spacer, .8840 x .190
9	710-0528	Hex Screw, 5/16-18:1.25	42	938-3056	Shoulder Bolt, .496 x 2.50:3/8-16
10	710-0599	Taptite Screw, 1/4-20:0.500	43	942-04053C	Blade
11	710-3005	Hex Screw, 3/8-16:1.25	44	747-05067A	Front Deck Lift Rod
12	710-3103	Hex Screw, 5/16-18:2.0	45	631-04070A	Chute Assembly
13	710-3178	Carriage Bolt, 3/8-16:0.75	46	747-05462	Deck Sway Rod
14	911-3314	Roller Pin, 1/2 DIA x 7.31 LG	47	747-1116	Deck Release Handle Rod
15	712-0229	Push Nut, 3/8	48	954-04077	V Belt
16	712-04063	Flangelock Nut, 5/16-18	49	756-04129B	Idler Pulley, 4.25"DIA
17	712-04065	Flangelock Nut, 3/8-16	50	783-05030	Chute Bracket
18	712-0417A	Flange Nut, 5/8-18	51	783-04414A	Center Skirt
19	712-04243	Flexlock Nut, 1/2-13	52	783-04415	RH Skirt
20	731-07487	Deck Wash Nozzle	53	783-05280	LH Belt Cover
21	912-3010	Hex Nut, 5/16-18:GR5	54	783-05281	RH Belt Cover
22	914-0111	Cotter Pin, 3/32:1.0	55	783-05030	Idler Bracket
23	753-04070	Lynch Pin, .1875	56	736-0315	Flat Washer, .760 x 1.50 x .120
24	703-3511B	Finger Guard	57	937-3000	Lube Fitting
25	914-0470	Cotter Pin, 1/8 x 1.25	58	738-1010A	Spindle Shaft
26	917-04074	Deck Adjustment Gear	59	941-0919A	Ball Bearing, .787ID x 1.85
27	921-04041	Water Nozzle Adaptor	60	748-0160A	Spacer, .790 ID x 1.25 OD x .175
28	731-05679	Front Roller	61	750-1000	Spacer, .80 x 1.10 x 1.322
29	732-0459C	Extension Spring, .94 DIA. x 6.74 LG	62	750-1349A	Spacer, .79 x 1.82 x .55
30	732-04652	Compression Spring, .535 OD x 1.751 LG	63	756-04216	Deck Pulley
31	732-0934	Extension Spring, 1.15 OD x 5.99 LG	64	711-04565	Hinge Pin
32	734-04155	Front Deck Wheel	65	732-04372	Torsion Spring
33	734-0973	Rear Deck Wheel			

## Hood and Dash, K Style



Ref.	Part Number	Description
1	731-07456	Dash
2	710-0599	Taptite Screw ,1/4-20:0.500
3	710-04484	Taptite Screw ,5/16-18:.750
4	710-0895	Hi-Lo Screw, 1/4-15:0.750
5	710-1017	Screw, 1/4-14:0.625
6	710-1611B	Taptite Screw ,5/16-18:0.750
7	714-04040	Bow Tie Cotter Pin
8	631-04353A	Dash Lever
9	710-3217	Machine Screw, #8-32:0.375
10	931-06212	Plenum
11	735-0271A	Bumper
12	747-05280	Control Rod Latch
13	747-1196	Lever
14	783-04285F	RH Support Plate
15	783-04323F	LH Support Plate
16	710-1652	Tap Screw, 1/4-20, 0.625
17	683-04441A	Hood Assembly
18	710-05108	Screw, 1/4 DIA:.750
19	731-06095	LH Lens
20	731-06096	RH Lens
21	738-04091A	Shoulder Screw, .43 x .29
22	747-04161	LH Tank Support Rod
23	747-04946	RH Tank Support Rod
24	951-04309	Fuel Tank
25	951-12182	Fuel Cap
26	925-0963	Lamp
27	925-1649	Lamp Socket
28	731-1999	Choke Plug
29	946-04542	Throttle/Choke Cable, 46.5"
30	925-04227B	Key Switch Module
31	925-04036C	Hour Meter
32	712-04064	Flangelock Nut, 1/4-20
33	625-05002	Key, Assembly
34	631-04272	Grill
35	710-0751	Hex Screw, 1/4-20:.620
36	712-0142	Hex Nut, #8-32:GRA
37	726-3046	Ratchet Clip:.250 DIA
38	731-07550	Control Knob
39	732-04580	Extension Spring, .500 DIA X 2.733 LG
40	735-04076	Accessory Net
41	925-04174	Electric PTO Switch

# Electrical Schematic





[illegible]

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To order replacement parts or locate your nearest service dealer call a Customer Support at (800) 800-7310.  
or visit [www.mtdproducts.com](http://www.mtdproducts.com) to find the nearest authorized dealer in your area.

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**MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019**

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